WHAT IS CLAIMED IS:

- A method for detecting a CD8⁺ suppressor molecule that has anti-HIV-1 activity, the method comprising:
 - (a) contacting a host cell with a replication deficient HIV pseudotyped virus comprising a reporter gene operatively associated with an HIV promoter;
 - (b) contacting the host cell with:
 - a sample comprising enriched CD8⁺ cells; or
 - (ii) a sample comprising a cell culture of CD8+ cells; or
 - (iii) an extract or media component from (i) or (ii); and
- (c) measuring reporter gene activity,
 wherein inhibition of reporter gene activity indicates anti-HIV-1 activity.
- 2. The method of Claim 1, wherein the reporter gene is expressed during early proviral gene expression.
- The method of Claim 2, wherein the reporter gene is expressed in place of an early proviral gene.
 - 4. The method of Claim 3, wherein the early proviral gene is a nef gene.
- The method of Claim 1, wherein the pseudotyped virus is an env deficient pseudotyped virus.
- 6. The method of Claim 5, wherein the pseudotyped virus is produced by a method comprising co-transfecting DNA for the pseudotyped virus with a vector that encodes a viral envelope protein.
- The method of Claim 6, wherein the viral envelope protein is an HIV Env protein.

- The method of Claim 6, wherein the viral envelope protein is a non-HIV viral envelope protein.
- The method of Claim 1, wherein the reporter gene is a luciferase gene, a chloramphenicol acetyltransferase gene, a growth hormone gene, or a fluorescent protein gene.
 - 10. The method of Claim 9, wherein the reporter gene is a luciferase gene.
- A method for detecting a CD8⁺ suppressor molecule that has anti-HIV-1 activity, said method comprising:
 - (a) contacting a host cell with an env deficient HIV pseudotyped virus comprising a reporter gene substituted for an HIV nef gene such that said reporter gene is expressed in place of the HIV nef gene;
 - (b) contacting the host cell with:
 - (i) a sample comprising enriched CD8+ cells; or
 - (ii) a sample comprising a cell culture of CD8+ cells; or
 - (iii) an extract or media component from (i) or (ii); and
- (c) measuring reporter gene activity,

wherein inhibition of reporter gene activity indicates anti-HIV-1 activity.

- 12. The method of Claim 11, wherein the reporter gene is a luciferase gene, a chloramphenicol acetyltransferase gene, a growth hormone gene, or a fluorescent protein gene.
 - 13. The method of Claim 12, wherein the reporter gene is a luciferase gene.
- 14. A diagnostic assay for monitoring clinical progression of HIV infection, the diagnostic assay comprising:
 - (a) contacting a host cell with a replication deficient HIV pseudotyped virus comprising a reporter gene operatively associated with an HIV promoter;

- (b) contacting the host cell with samples from an HIV infected individual, wherein the samples are collected from the individual at one or more time intervals; and
- (c) measuring reporter gene activity at one or more time intervals, wherein an increase in reporter gene activity indicates progression of HIV infection.
- The method of Claim 14, wherein the reporter gene is expressed during early proviral gene expression.
- The method of Claim 15, wherein the reporter gene is expressed in place of an early proviral gene.
 - 17. The method of Claim 16, wherein the early proviral gene is a nef gene.
- The method of Claim 16, wherein the pseudotyped virus is an env deficient pseudotyped virus.
- 19. The method of Claim 18, wherein the pseudotyped virus is produced by a method comprising co-transfecting DNA for said pseudotyped virus with a vector that encodes a viral envelope protein.
- The method of Claim 19, wherein the viral envelope protein is an HIV Env protein.
- The method of Claim 19, wherein the viral envelope protein is a non-HIV viral envelope protein.
- 22. The method of Claim 14, wherein the reporter gene is a chloramphenicol acetyltransferase gene, a luciferase gene, a growth hormone gene, or a fluorescent protein gene.

- 23. The method of Claim 22, wherein the reporter gene is a luciferase gene.
- A diagnostic assay for monitoring clinical progression of HIV infection, the diagnostic assay comprising:
 - (a) contacting a host cell with an env deficient HIV pseudotyped virus comprising
 a reporter gene substituted for an HIV nef gene such that said reporter gene is
 expressed in place of the HIV nef gene;
 - (b) contacting the host cell with samples from an HIV infection individual, wherein the samples are collected from the individual at one or more time intervals; and
- (c) measuring reporter gene activity at one or more time intervals, wherein an increase in reporter gene activity indicates progression of HIV infection.
- 25. The method of Claim 24, wherein the reporter gene is a chloramphenicol acetyltransferase gene, a luciferase gene, a growth hormone gene, or a fluorescent protein gene.
 - 26. The method of Claim 25, wherein the reporter gene is a luciferase gene.

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- A method for detecting a compound that suppresses HIV-1 replication, the method comprising:
 - (a) contacting a host cell with a replication deficient HIV pseudotyped virus comprising a reporter gene operatively associated with an HIV promoter;
 - (b) contacting the host cell with the compound at one or more time intervals; and
- (c) measuring reporter gene activity at one or more time intervals, wherein inhibition of reporter gene activity at one or more time intervals indicates that the compound suppresses HIV-1 replication.
- 28. The method of Claim 27, wherein the reporter gene is expressed during early proviral gene expression.
- The method of Claim 28, wherein the reporter gene is expressed in place of an early proviral gene.
 - 30. The method of Claim 29, wherein the early proviral gene is a nef gene.
- The method of Claim 27, wherein the pseudotyped virus in an env deficient pseudotyped virus.
- 32. The method of Claim 31, wherein the pseudotyped virus is produced by a method comprising co-transfecting DNA for the pseudotyped virus with a vector that encodes a viral envelope protein.
- The method of Claim 32, wherein the viral envelope protein is an HIV Env protein.
- The method of Claim 32, wherein the viral envelope protein is a non-HIV envelope protein.

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- The method of Claim 27, wherein suppression of HIV-1 is at a stage of viral entry.
 - 36. The method of Claim 35 further comprising the steps of:
 - (a) contacting a different host cell with the HIV pseudotyped virus;
 - (b) contacting the different host cell with a viral entry inhibitor at one or more time intervals; and
- (c) measuring reporter gene activity at one or more time intervals; wherein the time intervals at which reporter gene activity is inhibited correspond to time intervals of viral entry.
- The method of Claim 36, wherein the viral entry inhibitor is an anti-fusion peptide.
- The method of Claim 37, wherein the anti-fusion peptide is DP107, DP178,
 T1249 or T649.
- 39. The method of Claim 36, wherein the viral entry inhibitor is an antibody that disrupts the interaction between a CD4* cell surface receptor and a viral envelope protein.
- 40. The method of Claim 39, wherein the antibody is a monoclonal antibody that specifically binds to the CD4* receptor.
- 41. The method of Claim 27, wherein suppression of HIV-1 is at a stage of reverse transcription.
 - 42. The method of Claim 41 further comprising the steps of:
 - (a) contacting a different host cell with the HIV pseudotyped virus;
 - (b) contacting the different host cell with a reverse transcription inhibitor at one or more time intervals; and
 - (c) measuring reporter gene activity at one or more time intervals;

wherein the time intervals at which reporter gene activity is inhibited correspond to time intervals of reverse transcription.

- The method of Claim 42, wherein the reverse transcription inhibitor is a non-nucleoside reverse transcriptase inhibitor.
- 44. The method of Claim 43, wherein the reverse transcriptase inhibitor is nevirapine.
- 45. The method of Claim 27, wherein suppression of HIV-1 is at a stage of early virus gene expression.
 - 46. The method of Claim 45 further comprising the steps of:
 - (a) contacting a different host cell with the HIV pseudotyped virus;
 - (b) contacting the different host cell with an inhibitor of early virus gene expression at one or more time intervals; and
- (c) measuring reporter gene activity at one or more time intervals, wherein the time intervals at which reporter gene activity is inhibited correspond to time intervals of early virus gene expression.
- 47. The method of Claim 46, wherein the inhibitor of early virus gene expression is a Tat inhibitor.